

## **Focus Area 2: Arthritis, Osteoporosis, and Chronic Back Conditions**

**Objective 2-10** calls for reductions in hospitalizations for vertebral fractures associated with osteoporosis among persons aged 65 years and older to an age-adjusted rate of 11.6 per 10,000 population.

Hospital discharge rates indicate a significant increase among California residents aged 65 and over with a diagnosis of vertebral fracture as either the Principal Diagnosis or in any of seven first-listed Other Diagnosis fields of the hospital discharge record (Figure 2-10, Table 2-10). Rates increased from 11.3 per 10,000 population in 2000 to 12.4 per 10,000 in 2004, which moved California above the HP2010 objective.

Data by gender show that females aged 65 and over experienced a significant increase in age-adjusted hospitalization rates for vertebral fractures from 13.0 per 10,000 in 2000 to 14.4 per 10,000 in 2004. Female rates exceeded the HP2010 target, and were significantly higher than the hospitalization rates for males (9.6 per 10,000 in 2004). This HP2010 objective is being achieved for males, but not for females.

Examined by race and ethnicity, the highest vertebral fracture hospitalization rates were observed for Whites (statistically significant increase from 12.1 per 10,000 in 2000 to 13.9 per 10,000 in 2004). Asian/Pacific Islander persons aged 65 and over had the second highest rates of vertebral fracture hospitalizations (10.2 per 10,000 in 2004), but these were consistently below the HP2010 target of 11.6 per 10,000 population. The HP2010 objective is being achieved for all racial and ethnic populations in California during 2000-2004 except for Whites. The hospitalization rates for American Indians/Alaska Natives were unreliable due to the small number of events, so it remains unknown whether the HP2010 objective will be met for this population.

For more information on arthritis and osteoporosis, visit the California Arthritis Partnership Program (CAPP) and the California Osteoporosis Prevention and Education (COPE) program Web site at:

<http://www.dhs.ca.gov/ps/cdic/cdcdb/medicine/gerontology/oaunit/>

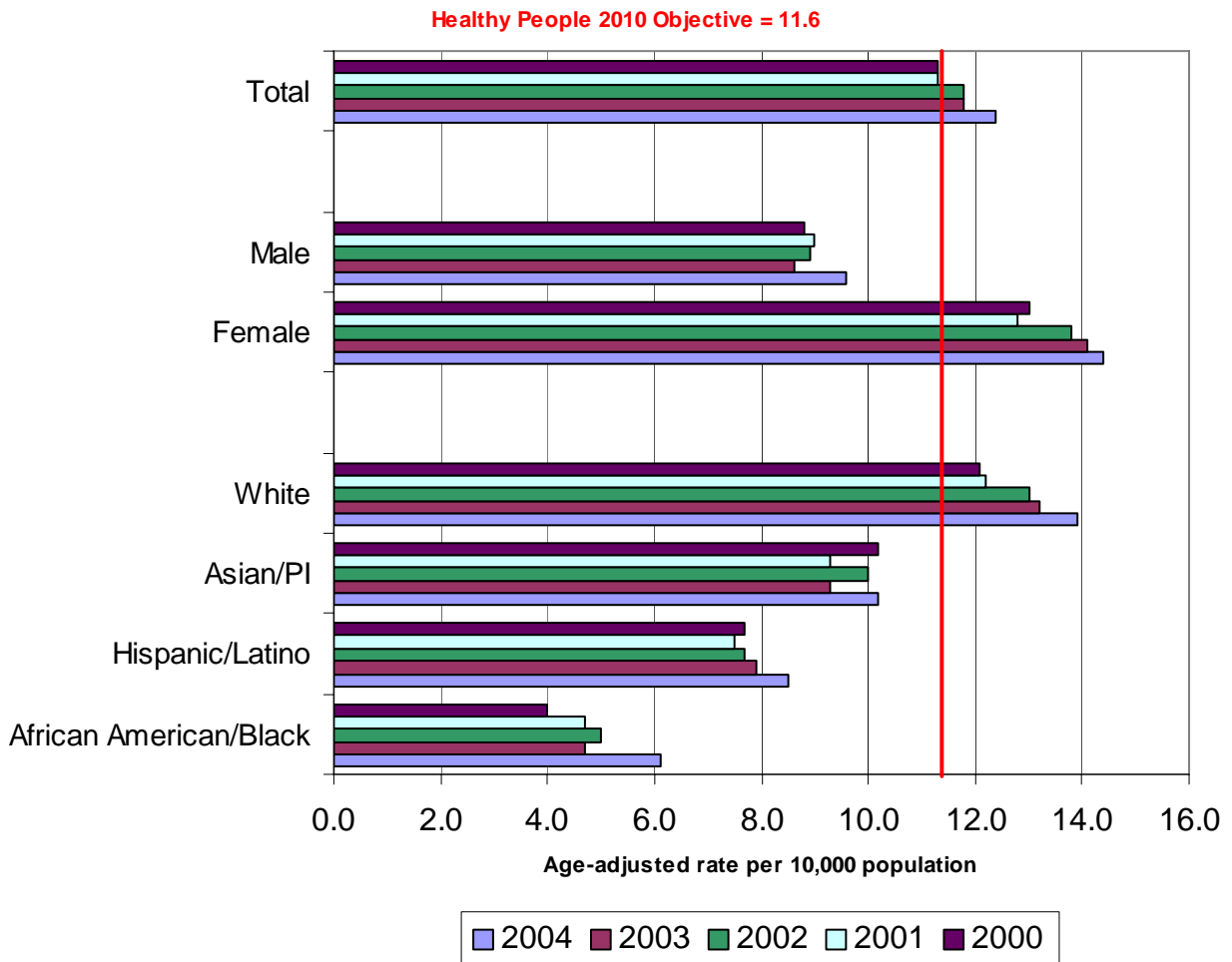
For more information on Healthy People 2010 objective 2-10, please visit:

<http://www.healthypeople.gov/Document/HTML/Volume1/02Arthritis.htm>

and

<http://www.healthypeople.gov/Document/html/tracking/od02.htm>

**Figure 2-10**  
**Vertebral Fracture Hospitalizations Among Persons Aged 65 and Over**  
**California, 2000-2004**



**Table 2-10: Vertebral Fracture Hospitalization Rates Among Persons Aged 65 and Over  
California, 2000-2004**

	2000		Lower	Upper	2001		Lower	Upper
Objective 2-10	N	Rate <sup>1</sup>	C.I.	C.I.	N	Rate <sup>1</sup>	C.I.	C.I.
<b>Healthy People 2010 Target</b>		<b>11.6</b>				<b>11.6</b>		
<b>Statewide Total</b>	4,107	11.3	11.0	11.7	4,259	11.3	10.9	11.6
<b>Race-Ethnicity</b>								
American Indian/Alaska Native	4	DSU	-----	-----	2	DSU	-----	-----
Asian/Pacific Islander	340	10.2	9.1	11.3	339	9.3	8.3	10.2
Black/African American	70	4.0	3.1	5.0	85	4.7	3.7	5.7
Hispanic/Latino	322	7.7	6.8	8.5	349	7.5	6.7	8.3
White	3,227	12.1	11.7	12.6	3,334	12.2	11.8	12.7
<b>Gender</b>								
Female	2,830	13.0	12.5	13.5	2,885	12.8	12.3	13.3
Male	1,277	8.8	8.3	9.2	1,374	9.0	8.5	9.5

	2002		Lower	Upper	2003		Lower	Upper
Objective 2-10	N	Rate <sup>1</sup>	C.I.	C.I.	N	Rate <sup>1</sup>	C.I.	C.I.
<b>Healthy People 2010 Target</b>		<b>11.6</b>				<b>11.6</b>		
<b>Statewide Total</b>	4,636	11.8	11.5	12.2	4,765	11.8	11.5	12.2
<b>Race-Ethnicity</b>								
American Indian/Alaska Native	7	DSU	-----	-----	4	DSU	-----	-----
Asian/Pacific Islander	395	10.0	9.0	10.9	395	9.3	8.4	10.2
Black/African American	94	5.0	4.0	6.0	92	4.7	3.7	5.7
Hispanic/Latino	385	7.7	6.9	8.5	428	7.9	7.1	8.6
White	3,631	13.0	12.6	13.5	3,720	13.2	12.7	13.6
<b>Gender</b>								
Female	3,209	13.8	13.3	14.2	3,348	14.1	13.6	14.5
Male	1,427	8.9	8.5	9.4	1,417	8.6	8.1	9.0

	2004		Lower	Upper	5-year	HP2010 Objective
Objective 2-10	N	Rate <sup>1</sup>	C.I.	C.I.	Trend	Being Achieved?
<b>Healthy People 2010 Target</b>		<b>11.6</b>				
<b>Statewide Total</b>	5,059	12.4	12.1	12.8	Sig. +	No
<b>Race-Ethnicity</b>						
American Indian/Alaska Native	5	DSU	-----	-----	n/a	Unk
Asian/Pacific Islander	455	10.2	9.3	11.1	ns	Yes
Black/African American	123	6.1	5.0	7.1	ns	Yes
Hispanic/Latino	478	8.5	7.8	9.3	ns	Yes
White	3,897	13.9	13.5	14.3	Sig. +	No
<b>Gender</b>						
Female	3,458	14.4	13.9	14.9	Sig. +	No
Male	1,601	9.6	9.1	10.1	ns	Yes

SOURCES: Office of Statewide Health Planning and Development, Patient Discharge Data, 2000-2004;  
CA Department of Finance, Demographic Research Unit, *Population Projections by Race/Ethnicity for California and Its Counties 2000-2050*, May 2004.

NOTES: \* ICD-9-CM codes 805.0, 805.2, 805.4, 805.8 in PDX or 7 ODXs;

<sup>1</sup> Age-adjusted rate per 10,000 population aged 65 years and older.

DSU Data statistically unreliable (Relative Standard Error greater than 23 percent).

Sig. + Statistically significant increase in age-adjusted hospitalization rates from 2000 to 2004.

n/a Reliable data not available for trend analysis.

ns No significant trend as measured by linear regression analysis.